

Date: Tue, 4 Jan 94 04:30:20 PST  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Ant Digest V93 #162  
To: Ham-Ant

Ham-Ant Digest                      Tue, 4 Jan 94                      Volume 93 : Issue 162

Today's Topics:

Any comments on the Comet B20NM0?  
    Best of both worlds?  
Commercial Antenna Tuners (2 msgs)  
Help Getting Cables Inside (2 msgs)  
    Information Needed  
Measuring antenna Q (quality factor)  
Need info on Hy-Gain 5BDQ antenna  
    Office Antenna  
    Where to get ladder feed

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>  
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 3 Jan 94 16:07:06 GMT  
From: ogicse!emory!rsiatl!ke4zv!gary@network.ucsd.edu  
Subject: Any comments on the Comet B20NM0?  
To: ham-ant@ucsd.edu

In article <steve-030194004327@fuzbat.pgh.pa.us> steve@telerama.pgh.pa.us (Stephen D. Cohen) writes:

>

> As I was interested in antennas of this type, the Comet B20NM0 looked  
> like a good compromise. Does anyone have any comments on this antenna, or  
> suggestions for other antennas that fit my requirements? Thanks in  
> advance...

I use the B10NM0 which is shorter. It works fine on UHF, about like

a quarterwave on 2 meters, and I use a triplexer to feed my cellular phone off of it too. The B20NMO is supposed to have some gain on 2 meters as well. Mechanically nice antennas, and they do seem to work.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: Tue, 4 Jan 1994 08:53:35 GMT  
From: netcomsv!netcom.com!tcj@decwrl.dec.com  
Subject: Best of both worlds?  
To: ham-ant@ucsd.edu

As the proud owner of a shiny new FT-736, I need to do some serious gardening on my antenna farm (25 watts into 50 feet of RG-8/U and a triband vertical is okay for FM, but downright laughable for SSB on the high bands!) Naturally I'd like to be able to work every band in every mode, including OSCAR, but since the "antenna farm" lives on the roof where there's limited space, I'm going to have to make some compromises. My current plan is to try my hand at some crossed yagis, which will be appropriate for a lot of satellite work and should also perform reasonably well for terrestrial work (albeit with a loss on the order of 3 db as I understand it.)

Since a crossed yagi is essentially two antennas (one horizontally polarized and the other vertically polarized) that share the same boom, a thought has occurred to me: is it possible to design a crossed yagi that could be switched at will so as to operate as either a vertically, horizontally or circularly polarized beam? I've been unable to find any references to such a design, and suspect that the nature of the phasing harness, insertion loss associated with switches, etc. make it impractical. Any comments, hints or suggestions?

Todd, KB6JXT

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Date: 3 Jan 1994 16:39:53 GMT  
From: swrinde!gatech!howland.reston.ans.net!math.ohio-state.edu!news.acns.nwu.edu!casbah.acns.nwu.edu!lapin@network.ucsd.edu  
Subject: Commercial Antenna Tuners  
To: ham-ant@ucsd.edu

In article <940102.13295.LEEVANKOTEN@delphi.com>,  
Leland Van Koten <LEEVANKOTEN@delphi.com> wrote:

>

>Charles --

>

>I've heard the "Mighty Fine Junk" references, and they are accurate in  
>relation to some MFJ products, such as their 2 meter 5/8 wave antenna, but not  
>with respect to the tuners -- at least in my experience. I'm on my second MFJ  
>tuner, this one being the MFJ-986 that you referred to. With it, I have no  
>problem loading a twin-lead fed 80 meter inverted V on everything from 160 to  
>10 meters. Depending on the length of your feed line, it can take some  
>tweaking (on parts of 20 meters, I can't get below about a 1.5:1 SWR no matter  
>what),  
>but it has been very reliable and lot of Europeans can't believe I'm running  
>barefoot.

>

>73 de Lee/KE3FB in Md.  
>leevankoten@delphi.com

>

Lee:

I have had 2 Mighty Fine Junk tuners and, although I like them, I still  
consider them to be junk out of the box.

After I fix them, they are quite good.

Check the backs of your tuners. Both of mine had the UHF connectors  
attached to the chassis with aluminum pop-rivets. In the first one, the  
rivets were a little loose and the signal was intermittent. Upon opening  
it up, I found that these comprised the only ground connection. I drilled  
out the rivets and used steel screws with lots of lockwashers (another  
junky design: the nice krinkle paint finish got into the holes for the  
rivets, decreasing the available area for ground contact).

On my second tuner I didn't wait for the rivet to get loose, I replaced  
them as soon as I got it out of the box.

Greg Lapin KD9AZ  
glapin@nwu.edu

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Date: 3 Jan 94 20:25:12 GMT  
From: ogicse!cs.uoregon.edu!sgiblab!sdd.hp.com!col.hp.com!srigenprp!  
alanb@network.ucsd.edu  
Subject: Commercial Antenna Tuners

For unbalanced output, you just use one of the antenna connections. For balanced output, you use both.

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Date: 3 Jan 94 14:23:11 GMT  
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!ux1.cso.uiuc.edu!rtaylor@network.ucsd.edu  
Subject: Help Getting Cables Inside  
To: ham-ant@ucsd.edu

ericr@access3.digex.net (Eric Rosenberg) writes:

>My question...how do I (easily) get all the cables into the house?

>The gear sits next to a hinged basement window, and it appears that  
>unless I replace a window pane with a piece of plexiglass and use  
>feedthoughts, I'll have to remove bricks...of which there are two layers  
>in this 1907 structure (with a gap in between).

>Can anyone offer a better solution or relatively easy-to-understand  
>instructions on how to get the bricks out...which looks really messy!  
>[Funny, this was a lot more straight forward overseas. I guess it was  
>because the I didn't own the buildings there :-)]

>Eric, WD3Q

I just drilled appropriate sized holes in the wall and inserted  
PVC pipe, up to 3/4 inch dia. Drill slightly up hill going into  
the house so any water runs out, not in.

-----  
Date: 3 Jan 94 17:14:46 GMT  
From: ogicse!emory!europa.eng.gtefsd.com!paladin.american.edu!darwin.sura.net!  
fconvx.ncifcrf.gov!mack@network.ucsd.edu  
Subject: Help Getting Cables Inside  
To: ham-ant@ucsd.edu

In article <2g99of\$e2o@vixen.cso.uiuc.edu> rtaylor@ux1.cso.uiuc.edu (Roger Taylor)  
writes:

>ericr@access3.digex.net (Eric Rosenberg) writes:

>

>

>

>>My question...how do I (easily) get all the cables into the house?

>

>>The gear sits next to a hinged basement window, and it appears that  
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>>in this 1907 structure (with a gap in between).

>

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>>instructions on how to get the bricks out...which looks really messy!  
>>[Funny, this was a lot more straight forward overseas. I guess it was  
>>because the I didn't own the buildings there :-)]

>

>>Eric, WD3Q

>

> I just drilled appropriate sized holes in the wall and inserted  
> PVC pipe, up to 3/4 inch dia. Drill slightly up hill going into  
> the house so any water runs out, not in.

I've done the plexiglass route - I didn't think it that bad of a solution  
actually. If you get any great ideas, as well as posting them on the net, send  
them to Dean Straw who is assembling the next antenna compeendium -  
dstraw@arrl.org -

Joe NA3T  
mack@ncifcrf.gov

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Date: Mon, 03 Jan 1994 12:47:05 -0500  
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa  
Subject: Information Needed  
To: ham-ant@ucsd.edu

In article <2fkqfe\$mbf@mailier.fsu.edu>, dreid@mailier.fsu.edu (Debi Reid)  
wrote:

> I have just recently become rather intrested in radio-packet  
> digital communications. Anyrate, I need some information to  
> help me get started.

Debi-

You asked for a lot of info!

To start, are you familiar with the use of a computer with a modem, to  
access Bulletin Boards by telephone? If so, you're well on your way to  
understanding how to use Ham Packet.

If you have a BBS setup, merely disconnect the cable from the telephone  
modem, reconnect it to a Terminal Node Controller (TNC), connecte the TNC  
to your radio, and procede.

The code-free "Technician" license allows access to Ham bands above 50 MHz. I think most U.S. Packet activity is on the Two Meter Ham band, around 145.01 MHz. Most are operating at 1200 baud on the air, although you also have to set your computer and TNC for a compatible baud rate on that side of the TNC.

I have been on Packet for about 5 years, but still haven't learned the answers to all the questions you asked. I suggest you get the Technician license, and set up a basic Packet system on the Two Meter Ham band. Once you get started, you can make a lot more sense out of things, and can attack the rest of your questions one at a time!

73, Fred, K4DII

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Date: 3 Jan 94 21:35:07 GMT  
From: news.larc.nasa.gov!sirius.larc.nasa.gov!jcc@uunet.uu.net  
Subject: Measuring antenna Q (quality factor)  
To: ham-ant@ucsd.edu

I want to measure the Q (quality factor) of various antennas. How can I do this?

Thanks in advance,  
Jeff Case  
jcc@sirius.larc.nasa.gov

-----  
Date: Mon, 03 Jan 1994 13:16:37 -0700  
From: orca.es.com!cnn.sim.es.com!msanders.sim.es.com!user@uunet.uu.net  
Subject: Need info on Hy-Gain 5BDQ antenna  
To: ham-ant@ucsd.edu

In article <1993Dec30.005204.17869@gsm001.mendelson.com>,  
gsmlrn@gsm001.mendelson.com (Geoffrey S. Mendelson) wrote:

> Hi,  
>  
> I purchased a Hy-Gain 5BDQ 10-80m trap antenna today as a close out.  
>  
> When I opened the box, I found that some of the hardware, the wire, and  
> the instructions were missing. All of the traps were there and I expect that  
> they would be the hardest part.  
>  
> Does anyone have an address/telephone/fax number for Hy-Gain?  
>

> Does anyone have one of these antennas and if you do, could you please copy the  
> manual for me? I would be willing to pay copying/fax costs.  
>  
> Thanks and 73  
>  
> Geoff.

Geoff:

I had a similar need for a Hy Gain manual. Here is the address of where to  
get one. Hy Gain was apparently purchased by another company, TELEX.

Mr. John King  
TELEX Communications, Inc.  
9600 Aldrich Avenue South  
Minneapolis, Minnesota 55420

Milt

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=====

Opinions, thoughts, &cetera are my own (when I can remember them).

"He flies the sky  
Like an Eagle in the eye  
of a hurricane that's abandoned."

KB7MSF  
UTAH

America

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Date: 3 Jan 94 01:51:14 GMT  
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!howland.reston.ans.net!cs.utexas.edu!not-  
for-mail@network.ucsd.edu  
Subject: Office Antenna  
To: ham-ant@ucsd.edu

Please reply via email since I don't usually read this list. My  
apologies if this is the wrong group. In that case, suggestions for a  
more appropriate group would be appreciated.

For years I've suffered with lousy am/fm radio reception in an office



environment: city (Boston) building with lots of neon lights, an internal, bottom floor office. Is there anything one can do fairly simply to improve reception? Extensive wiring is out. A large antenna is out. Buying an expensive tuner is out (I use a middle line Sony receiver). Dangling something overhead in the ceiling might be feasible. The latest attempt to improve the situation is a fairly cheap, amplified FM antenna. It helps, but only barely. Anyone have any experience using a Yagi antenna successfully in such an environment?

Thanks.

Paul Reilly      Phone: (617)621-8818  
Pajato Systems Group   Email: pmr@pajato.com

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Date: 3 Jan 94 15:59:57 GMT  
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!moe.ksu.ksu.edu!osuunx.ucc.okstate.edu!  
olesun!gcouger@network.ucsd.edu  
Subject: Where to get ladder feed  
To: ham-ant@ucsd.edu

In article <dsaCJ1In6.Mn0@netcom.com>, David S.A. Stine <dsa@netcom.com> wrote:  
>In article <2g1n5g\$4u3@convex.convex.com> tonyp@convex.com (honey bunny) writes:  
>>Well - the poison oak has gone dormant and I've got the time so I'm  
>>ready to build the rhombic I've been dying to put up. Three things:  
>  
>>o Where can I get the 600-ohm resistor needed at the far end?  
>> Also, is there some magic that  
>> takes place that requires a higher wattage or will a 100-watt  
>> resistor do the job because I'm running only 100-watts output?  
>  
>100 watts in requires a 100 watt resistor. Note that there are terminated  
>rhombics (which fire in one direction) and unterminated rhombics (which are  
>bi-directional). Unterminated means that the other end is open, I seem to  
>recall.

100 watts requires a 50 watt resistor as 50 watt is radiated plus some slight losses in the feeders and tuners. Non-inductive power film resistors to 50 watts are made by Caddock 909 788-1700. These need a heat sink and can be parralled to get what ever you need. e.g. a 200 watt 600 ohm resistor would need 4 2400 ohm resistors in parrallel. These resistors have a flat swr to 1 gigaHz and are resonable priced. They are lazar trimed to what ever you want and are in the \$10 or less price range.

Good luck

Gordon

```
/*                      Gordon Couger                      */
/*      Biosystems & Agricultural Engineering              */
/*      Oklahoma State University                          */
/*      114 Ag Hall, Stillwater, OK  74074                */
/*  gcouger@olesun.agen.okstate.edu 405-744-9763 day 624-2855 evenings */
/*      I Speak only for myself and not for anyone else    */
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End of Ham-Ant Digest V93 #162  
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